

Programs will lead to new products/manufacturing techniques, green jobs

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(Washington, DC) -- Congressman Tim Ryan (OH-17), a member of the House Appropriations Committee, has secured \$16,000,000 from the Defense Appropriations spending bill as part of an ongoing effort to build the next generation of cutting edge defense products and develop the next generation of manufacturing techniques in Northeast Ohio. The programs range from advanced materials research into nanocomposites, 3D scanning and inspections and new research and clinical trials on cancer fighting drugs.

“We are going to be a world leader in advanced manufacturing and developing products that keep our soldiers safe in the field,” said Congressman Ryan. “These programs, especially the advanced materials and fabrication programs, have the potential to spin off civilian applications, energy generation and green collar jobs.”

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\$3,000,000 for the ARL 3D Model Based Inspection and Scanning Program:

The Army Research Lab (ARL) is funding digital 3D model-based design and manufacturing computer operating environments that eliminate design waste and enables engineers and local suppliers a more continuous process flow. The project will maximize manufacturing efficiency in the design process and reduce cost.

\$2,000, 000 for Counter-threat Finance Global:

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Funds the development of an integrated approach to the planning, execution, analysis, and monitoring of US and coalition counter-threat finance (CTF); counternarcoterrorism; counter-weapons of mass destruction; counter-improvised explosive device; counter-terrorism; and stability operations across Southern Europe, the Middle East, Central Asia, Latin America, and Asia-Pacific. The project relies upon the use of market-tested financial intelligence gathering, relationship discovery, and supply chain monitoring processes. Revere Data, the recipient of the project, recently decided to move some of its operations from California to Youngstown.

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\$2,000,000 for Advanced Nanocomposite Materials for Lightweight Armor- YSU:

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This project will help develop a viable lightweight, cost efficient, integrated armor plate for soldiers in the field. The program combines the unique scientific, technical, and processing capabilities of personnel at Youngstown State University, Fireline TCON, Inc. (FTi), and Iten Industries to develop and test novel lightweight nanocomposite materials for armor protection of soldiers and vehicles.

\$2,500,000 for the Defense Metals Technology Center:

Funds will be used to develop a roadmap of industrial base needs, shortcomings, and risk management strategies. Significant research will be used to create a blueprint of the United States' industrial base manufacturing capabilities to reduce the potential for Single Point Failures that negatively impact the Army's ability to maintain superior military readiness. The DMTC has headquarters in Canton, OH and it is expected that Northeast Ohio as a whole will factor prominently in their plans to expand defense manufacturing capabilities.

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\$1,500,000 for research into Intensive Quenching for Advanced Weapons Systems:

This project will achieve higher power density requirements through the application of IQ on alloy steel, meaning technology to heat treat high strength helicopter gears. Preliminary results show that the IQAWS improves bending fatigue resistance of gear teeth by more than 4 times. A cross service benefit is its application for providing lighter, longer life weapons for ultra-lightweight 120mm cannons to support the generation-next Future Combat Systems.

\$2,000,000 for Pediatric Cancer Research and Clinical Trials:

The funding will be used to enhance important ongoing pediatric cancer clinical trials support the creation of significant, new clinical trials and prevent the discontinuation of critical childhood cancer trials, benefiting children of military families, civilian DOD employees, and other children afflicted with childhood cancer. Various operations of this national program are based in Akron.

\$2,000,000 for Printed and Conformal Electronics for Military Applications:

Future defense platforms will need innovative electronics solutions in order to maintain operational superiority. The combination of new, advanced materials and printed and conformal electronics will enable flexible, lightweight and rugged photovoltaic, battery, sensor, and communication products for military systems. Integration with textiles and other surfaces will enable production of electronics for military infrastructure not possible today.

\$1,000,000 TACFAB:

The TacFab system will create a portable casting facility and deploy it for test and evaluation. This system will have dual-use application, specifically within the U.S. energy sector, municipalities, and Homeland Security (emergency or post-disaster response). Various manufacturing and assemblage steps will be performed across Northeast Ohio.